

# **EAST Search History**

*Update & Interference*

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L1	255492	(tuning near3 fork) or saw or baw or qcm or microbalance or resonator or cantilever or ((surface or bulk) near3 acoustic\$4) or trident or bimorph or unimorph or torsion	US-PGPUB; USPAT	OR	ON	2006/12/10 10:59
L2	193729	hydrophob\$6	US-PGPUB; USPAT	OR	ON	2006/12/10 11:00
L3	104274	poros\$6	US-PGPUB; USPAT	OR	ON	2006/12/10 11:00
L4	2	L1 same L2 same L3	US-PGPUB; USPAT	OR	ON	2006/12/10 11:01
L5	233764	(tune or tuning or change or changing) with (resonant or resonance or frequency or performance)	US-PGPUB; USPAT	OR	ON	2006/12/10 11:01
L6	14827	L5 with (layer or material or cover)	US-PGPUB; USPAT	OR	ON	2006/12/10 11:01
L7	1441	L6 same L1	US-PGPUB; USPAT	OR	ON	2006/12/10 11:02
L8	3092390	fluid or gas or gaseous or liquid or water or air or nitrogen or oxygen or oil or lubricant or petroleum	US-PGPUB; USPAT	OR	ON	2006/12/10 11:02
L9	200	L8 same L7	US-PGPUB; USPAT	OR	ON	2006/12/10 11:02
L10	200	L8 same L7	US-PGPUB; USPAT	OR	ON	2006/12/10 10:58
L11	2197	tunable with L1	US-PGPUB; USPAT	OR	ON	2006/12/10 11:03
L12	203	L8 same L11	US-PGPUB; USPAT	OR	ON	2006/12/10 11:03
L13	201	L12 not L10	US-PGPUB; USPAT	OR	ON	2006/12/10 11:04
L14	255492	(tuning near3 fork) or saw or baw or qcm or microbalance or resonator or cantilever or ((surface or bulk) near3 acoustic\$4) or trident or bimorph or unimorph or torsion	US-PGPUB; USPAT	OR	ON	2006/12/10 11:04
L15	258095	(L14 or tsm or (thickness near3 shear))	US-PGPUB; USPAT	OR	ON	2006/12/10 11:05

## EAST Search History

L16	262538	quartz or (lithium adj niobate) or (zinc adj oxide) or (lead near3 zirconate near3 titanate) or pzt or (gallo adj germanates) or gallogermanate or langasite or langanite or langatate or diomignite or (lithium adj tetraborate) or (bismuth near3 germanium near3 oxide) or (gallium adj phosphate) or (gallium adj nitride) or (aluminum adj nitride)	US-PGPUB; USPAT	OR	ON	2006/12/10 11:05
L17	1443651	diamonex or dlc or fluoropolymers or silicone or silane or polyolefin or carbide or nitride or oxide or diamond or polytetrafluoroethylene or fluorosilicone or polyethylene or polypropylene or (silicon adj carbide) or (silicon adj nitride) or (para adj xylylene) or parylene	US-PGPUB; USPAT	OR	ON	2006/12/10 11:06
L18	140745	L16 same L17	US-PGPUB; USPAT	OR	ON	2006/12/10 11:06
L19	2327	L18 same L15	US-PGPUB; USPAT	OR	ON	2006/12/10 11:07
L20	116	L19 same (performance or tunable or tune)	US-PGPUB; USPAT	OR	ON	2006/12/10 11:07
L21	216457	(tuning near3 fork) or saw or baw or qcm or microbalance or resonator or cantilever or ((surface or bulk) near3 acoustic\$4) or trident or bimorph or unimorph or torsion	FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/12/10 11:00
L22	64733	hydrophob\$6	FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/12/10 11:00
L23	41154	poros\$6	FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/12/10 11:00
L24	0	L21 same L22 same L23	FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/12/10 11:01
L25	101967	(tune or tuning or change or changing) with (resonant or resonance or frequency or performance)	FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/12/10 11:01
L26	4518	L25 with (layer or material or cover)	FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/12/10 11:01

## EAST Search History

L27	352	L26 same L21	FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/12/10 11:02
L28	6554068	fluid or gas or gaseous or liquid or water or air or nitrogen or oxygen or oil or lubricant or petroleum	FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/12/10 11:02
L29	33	L28 same L27	FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/12/10 11:02
L30	708	tunable with L21	FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/12/10 11:03
L31	25	L28 same L30	FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/12/10 11:03
L32	25	L31 not L29	FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/12/10 11:04
L33	216457	(tuning near3 fork) or saw or baw or qcm or microbalance or resonator or cantilever or ((surface or bulk) near3 acoustic\$4) or trident or bimorph or unimorph or torsion	FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/12/10 11:04
L34	217087	(L33 or tsm or (thickness near3 shear))	FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/12/10 11:05
L35	123792	quartz or (lithium adj niobate) or (zinc adj oxide) or (lead near3 zirconate near3 titanate) or pzt or (gallo adj germanates) or gallogermanate or langasite or langanite or langatate or diomignite or (lithium adj tetraborate) or (bismuth near3 germanium near3 oxide) or (gallium adj phosphate) or (gallium adj nitride) or (aluminum adj nitride)	FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/12/10 11:05

## EAST Search History

L36	1430881	diamonex or dlc or fluoropolymers or silicone or silane or polyolefin or carbide or nitride or oxide or diamond or polytetrafluoroethylene or fluorosilicone or polyethylene or polypropylene or (silicon adj carbide) or (silicon adj nitride) or (para adj xylylene) or parylene	FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/12/10 11:06
L37	55423	L35 same L36	FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/12/10 11:07
L38	596	L37 same L34	FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/12/10 11:07
L39	13	L38 same (performance or tunable or tune)	FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/12/10 11:07